#### PATENT COOPERATION TREATY

From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

ROBERT D. FISH **RUTAN & TUCKER, LLP** 611 ANTON BLVD., SUITE 1400 COSTA MESA, CA 92626

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY REPORT ON PATAENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Rule 71.1)

Date of mailing (day/month/year) 02 NOV 2005

Applicant's or agent's file reference IMPORTANT NOTIFICATION 325.0233PCT International application No. International filing date (day/month/year) Priority date (day/month/year) 01 July 2004 (01.07.2004) 17 October 2003 (17.10.2003) PCT/US04/21468 Applicant FLOUR CORPORATION

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary report on patentability and its annexes, if any, established on the international
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

#### REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed invention is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the IPEA/ US

Mail Stop PCT, Attn: IPEA/US

Commissioner for Patents

P.O. Box 1450 Alexandria, Virginia 223 13-1450

Facsimile No. (703) 305-3230

Authorized officer

Glenn Caldarola

Telephone No. (571)-272-170 Tenies Si

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Form PCT/IPEA/416 (January 2004)

### PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR EUDTHER ACTION	See Form PCT/IPEA/416						
325.0233PCT	FOR FURTHER ACTION							
International application No.	International filing date (day/month/year)	Priority date (day/month/year)						
PCT/US04/21468	01 July 2004 (01.07.2004)	17 October 2003 (17.10.2003)						
International Patent Classification (IPC) or national classification and IPC								
IPC(7): C10G 75/00 and US Cl.: 208/14, 15, 18, 47, 263								
Applicant								
FLOUR CORPORATION								
<ol> <li>This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> </ol>								
2. This REPORT consists of a total of sheets, including this cover sheet.								
3. This report is also accompa	anied by ANNEXES, comprising:							
a. (sent to the application	nt and to the International Bureau) a total of	sheets, as follows:						
this report an	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16							
	607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of								
Box No. I and the Supplemental Box.  b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))								
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as								
indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the								
Administrative Ins	structions).							
4. This report contains indicate	tions relating to the following items:							
Box No. I Ba	sis of the report							
Box No. II Pri	iority							
	on-establishment of opinion with regard to no plicability	ovelty, inventive step and industrial						
Box No. IV La	ck of unity of invention							
Box No. VI Ce	rtain documents cited							
Box No. VII Ce	rtain defects in the international application	national application						
	rtain observations on the international applic	ation						
Date of submission of the demand	Date of completion	Date of completion of this report						
09 August 2005 (09.08.2005)	17 October 2005 (17	.10.2005)						
Name and mailing address of the IPEA/ U		1						
Mail Stop PCT, Atm: IPEA/US		$\sim$ $\sim$ $\sim$						
Commissioner for Patents P.O. Box 1450	Glenn Caldarola	From Production						
Alexandria, Virginia 223 13-1450	i i	Mara 1 TECHNOLOGY						
Facsimile No. (703) 305-3230	Telephone No. (571)	7 13						

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.	
PCT/US04/21468	

Bo	x No.	. I Basis of the report
1.		regard to the language, this report is based on the international application in the language in which it was filed, so otherwise indicated under this item.
		This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:
		international search (under Rules 12.3 and 23.1(b))
		publication of the international application (under Rule 12.4)
		international preliminary examination (under Rules 55.2 and/or 55.3)
2.	to the	regard to the elements of the international application, this report is based on (replacement sheets which have been furnished execeiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not exed to this report):
		the international application as originally filed/furnished
	$\boxtimes$	the description:
		pages 1-17 as originally filed/furnished
		pages* received by this Authority on pages* received by this Authority on
	_	pages* received by this Authority on
	$\bowtie$	the claims:
		pages 18-22 as originally filed/furnished
		pages* as amended (together with any statement) under Article 19
		pages* received by this Authority on pages* received by this Authority on
		pages* received by this Authority on
	$\bowtie$	the drawings:
		pages 1-3 as originally filed/furnished
		pages* received by this Authority on
		pages* received by this Authority on
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.		The amendments have resulted in the cancellation of:
		the description, pages
		the claims, Nos
		the drawings, sheets/figs
		the sequence listing (specify):
		any table(s) related to the sequence listing (specify):
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
		the description, pages
		the claims, Nos.
		the drawings, sheets/figs
		the sequence listing (specify):
		any table(s) related to the sequence listing (specify):
* I)	fitem	4 applies, some or all of those sheets may be marked "superseded."

Form PCT/IPEA/409 (Box No. I) (January 2004)

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Form PCT/IPEA/409 (Box No. V) (January 2004)

International application No. PCT/US04/21468

Novelty (N)  Claims 1-33  Claims NONE  NO  Inventive Step (IS)  Claims 1-9 AND 18-33  YES  Claims 10-17  NO  Industrial Applicability (IA)  Claims 1-33  YES  Claims NONE  NO  2. Citations and Explanations (Rule 70.7)  Claims 10-17 lack an inventive step under PCT Article 33(3) as being obvious over either Petersen et al. (5,182,013) or Danzik (4,634,519).  Both Petersen and Danzik disclose an apparatus system comprising a crude unit and a vacuum unit.  It is noted that both Petersen and Danzik do not specifically disclose that the second feedstock is fed to the at least one of the crude unit and the vacuum unit in a predetermined amount that is effective to reduce naphthenic acid.  It would not have involved an inventive step by using the crude unit and vacuum unit of either Petersen or Danzik because the apparatus system of Petersen and Danzik can be used in any process including the present process.  Claims 1-33 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.	applicability, citations and ex	olanations sup	n regard to novelty, inventive s porting such statement	
Inventive Step (IS)  Claims 1-9 AND 18-33  YES  Claims 10-17  NO  Industrial Applicability (IA)  Claims 1-33  Claims NONE  NO  2. Citations and Explanations (Rule 70.7)  Claims 10-17 lack an inventive step under PCT Article 33(3) as being obvious over either Petersen et al. (5,182,013) or Danzik (4,634,519).  Both Petersen and Danzik disclose an apparatus system comprising a crude unit and a vacuum unit.  It is noted that both Petersen and Danzik do not specifically disclose that the second feedstock is fed to the at least one of the crude unit and the vacuum unit in a predetermined amount that is effective to reduce naphthenic acid.  It would not have involved an inventive step by using the crude unit and vacuum unit of either Petersen or Danzik because the apparatus system of Petersen and Danzik can be used in any process including the present process.  Claims 1-33 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter	1. Statement			
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